

# INFORMATION TECHNOLOGY-PROGRAMMING



A.A.S. Degree

Minimum 62 hours

Career & Technical Education • Associate in Applied Science Degree • Minimum 2.25 OGPA • Major Code: DITP

## FIRST YEAR

| Fall Semester                |                             | Credit Hrs |
|------------------------------|-----------------------------|------------|
| COMMUNICATION SKILLS         |                             | 3          |
| SOCIAL & BEHAVIORAL SCIENCES |                             | 3          |
| IT 119                       | Basic Software Applications | 3          |
| IT 153                       | IT Essentials I             | 4          |
| IT 173**                     | Programming I               | 3          |
| Total Hours                  |                             | 16         |

| Spring Semester                         |                           | Credit Hrs |
|---|---------------------------|------------|
| MATHEMATICS, SCIENCE, HEALTH, NUTRITION |                           | 3/4/5      |
| IT 151                                  | Windows Operating Systems | 3          |
| IT 195                                  | Computer Security I       | 4          |
| IT 273**                                | Programming II            | 3          |
| GENERAL ELECTIVE OR IT ELECTIVE         |                           | 3          |
| Total Hours                             |                           | 16/17/18   |

## SECOND YEAR

| Fall Semester                   |                      | Credit Hrs |
|---------------------------------|----------------------|------------|
| COMMUNICATION SKILLS            |                      | 3          |
| IT 155                          | Fundamentals of UNIX | 4          |
| IT 215                          | Network Fundamentals | 4          |
| GENERAL ELECTIVE OR IT ELECTIVE |                      | 3          |
| GENERAL ELECTIVE OR IT ELECTIVE |                      | 3          |
| Total Hours                     |                      | 17         |

| Spring Semester                         |  | Credit Hrs  |
|---|--|-------------|
| MATHEMATICS, SCIENCE, HEALTH, NUTRITION |  | 3/4/5       |
| IT 157 or IT 217                        | IT Support Specialist LAN Administration | 4/5         |
| GENERAL ELECTIVE OR IT ELECTIVE         |  | 3           |
| GENERAL ELECTIVE OR IT ELECTIVE         |  | 3           |
| Total Hours                             |  | 13/14/15/16 |

**COMMUNICATION SKILLS (Minimum of six semester hours):** ENG 121-3 Rhetoric and Composition, ENG 122-3 Rhetoric & Composition II, COM 121-3 Principles of Public Speaking, COM 144-3 Interpersonal Communications, COM 146-3 Business & Professional Communications

**MATHEMATICS, SCIENCE, HEALTH, NUTRITION (Minimum of six semester hours, three of which must be mathematics):** BIOL 121-4 Introductory Biology, BIOL 141-4 Environmental Science, BOT 121-4 Plants and Society, CHEM 123-4 Basic Inorg/Organic Chemistry, ECE 142-3 Health, Safety & Nutrition, FCS 124-3 Introduction to Nutrition, HLTH 121-3 Science of Personal Health, MATH 141-3 Statistics, MATH 128-3 College Algebra, MATH 144-3 Heart of Mathematics, MATH 151-4 Occupational Math, PHYS 121-3 Basic Physics

**SOCIAL & BEHAVIORAL SCIENCES (Minimum of three semester hours):** This can be any GECC Social & Behavioral Science course

**IT ELECTIVES:** IT 110-2 Basic Computer Assembly & Repair, IT 111-2 Intro to Information Technology, IT 113-2 Social Networking & Web 2.0, IT 114-2 Introductory Operating Systems, IT 115-2 Introductory Word Processing, IT 116-2 Introductory Spreadsheets, IT 117-2 Introductory Databases, IT 118-2 Introductory Presentation Software, IT 130-4 Fundamentals of Electricity, IT 131-2 Introductory Web Design, IT 132-2 Introductory Programming, IT 133-3 Systems Analysis, IT 134-1 Physical and Mental Sides of eSports, IT 135-3 Advanced Software Applications, IT 136-1 eSports Fundamentals, IT 137-1 eSports Practicum, IT 154-2 History and Evolution of Video Games, IT 170-2 Computer Network Gaming, IT 171-3 Introduction to Game Design, IT 190-3 Web Site Development, IT 191-3 Fundamentals of Web Design, IT 196-4 Computer Security II, IT 210 -2 Introductory Networking, IT 216-4 Router Theory and Technology, IT 218-4 Wide Area Networks, IT 219-4 LAN Switching and Wireless, IT 230-4 Internship, IT 271-3 Database Management, IT 290-4 Selected Topics

\*\*IT 173 Programming I and IT 273 Programming II are offered during alternating years.

**This degree prepares** students to test for industry standard certification such as Microsoft Certified Professional, CompTIA A+, CompTIA Server+, CompTIA Linux+ and CompTIA Network.

**This Information Technology (IT) Program** is designed to prepare individuals for entry-level positions in the areas of computer repair and computer network administration. This program specialized in installation, configuration, troubleshooting, maintenance and repair of computers and networks.

### Career Opportunities:

Computer Network System Administrator, Local Area Network Administrator, Computer Technician, Network Installation Technician, Computer Hardware Repair Technician

### Major Employers:

Public and Private Utilities, Manufacturing and Industrial Plants, Banking Firms, Insurance Firms, Medical Facilities, Law Firms, Government Agencies, Colleges and Universities, School Systems, Newspaper and other Publishing Firms, Communication Companies, Electronic Companies, Computer Equipment Sales, Computer Equipment Services Agencies, Data Processing Service Firms, Transportation Companies, Retail Stores

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